

## Homework - Representing Equations

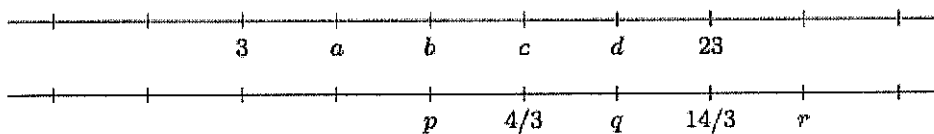
1. In the balance diagram below, find the number of marbles that balance one cube.



2. Draw a balance diagram that is modeled by the equation  $c + m + c + 7m + c = 2c + 2m + 3c$ . How many marbles will one cube balance?

3. During a recent episode of *Who Wants to Be a Billionaire*, your friend Terry called you, needing help with solving the equation  $5x + 1 = 2x + 7$ . Write down the step-by-step instructions you would give Terry over the phone.

4. On each of the following number lines, all of the labeled points are evenly spaced. Find coordinates for the seven points designated by the letters.



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